

# INTERNATIONAL SEARCH REPORT

PCT/EP2004/052471

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 E21B17/02 H01R13/52 H01R13/523		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01R E21B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 295 409 A (SCIENT DRILLING INT) 29 May 1996 (1996-05-29)	7
Y	page 7, line 27 - page 8, line 27	1,2
A	page 12, line 29 - page 13, line 12 page 13, line 24 - page 15, line 14; figures 2-4a,8,9	3-6
Y	----- US 5 132 624 A (KITSON DAVID) 21 July 1992 (1992-07-21) column 2, line 62 - column 3, line 4 column 4, line 66 - column 5, line 3 column 5, line 16 - column 5, line 43 column 6, line 26 - column 6, line 44; figures ----- -/--	1,2
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search  13 January 2005		Date of mailing of the international search report  25/01/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  Ledoux, S

## INTERNATIONAL SEARCH REPORT

PCT/EP2004/052471

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/082590 A (DIAMOULD LTD) 17 October 2002 (2002-10-17) cited in the application page 4, line 18 - page 5, line 7 page 5, line 26 - page 6, line 4; figure 1 -----	1,3-7
A	WO 01/02699 A (SHELL CANADA LTD ;SHELL INT RESEARCH (NL)) 11 January 2001 (2001-01-11) cited in the application abstract -----	1,5-7
A	FR 2 785 728 A (WHITAKER CORP) 12 May 2000 (2000-05-12) page 11, line 1 - page 11, line 11 page 11, line 30 - page 12, line 3; figures 1,3,4,14,16-19 -----	1,2

## INTERNATIONAL SEARCH REPORT

PCT/EP2004/052471

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
GB 2295409	A	29-05-1996	CA	2159309 A1	26-05-1996
US 5132624	A	21-07-1992	NONE		
WO 02082590	A	17-10-2002	EP	1251598 A1	23-10-2002
			EP	1374345 A1	02-01-2004
			WO	02082590 A1	17-10-2002
WO 0102699	A	11-01-2001	AU	759087 B2	03-04-2003
			AU	5981500 A	22-01-2001
			BR	0012023 A	19-03-2002
			CA	2375808 A1	11-01-2001
			CN	1357077 T	03-07-2002
			DE	60003180 D1	10-07-2003
			DE	60003180 T2	27-11-2003
			DK	1192331 T3	29-09-2003
			EA	2945 B1	26-12-2002
			WO	0102699 A1	11-01-2001
			EP	1192331 A1	03-04-2002
			NO	20016413 A	28-02-2002
			NZ	515646 A	30-05-2003
			US	6415869 B1	09-07-2002
FR 2785728	A	12-05-2000	FR	2785728 A1	12-05-2000